



January 2015

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Dear Dr. Sharpe,

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Environmental Defense Fund (EDF) would like to invite you to a meeting, *Advancing Environmental Dimensions in Neurological Disorders: A New Understanding*, on June 18th and 19th, 2015. The meeting will take place on June 18th and 19th, 2015 at the University of California San Francisco, in partnership with the National Institute of Environmental Health Sciences (NIH/NIEHS)/National Toxicology Program and the Environmental Protection Agency (EPA).

Neurological disorders and diseases affect millions of people worldwide: in the US alone, 50,000 people are diagnosed with Parkinson's disease per year, and 1.5 million children with attention deficit/hyperactivity disorder (ADHD) continue from 7.8% to 20.0% from 2011, and in 2010, 1.16 in 68 children were identified with autism spectrum disorder. There is increasing recognition of the importance of environmental factors in the etiology and pathogenesis of human disorders, but knowledge is far from fully understanding how environmental agents like chemicals impact especially the complex endpoints such as neurological disorders and diseases. Some genetic factors have been estimated to explain only 20% of all cases of neurological diseases. Understanding the role of the environment is critical if we are to protect public health.

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While there are a host of neurotoxicants, such as lead and methylmercury, there are many more chemicals suspected of causing developmental and functional deficits. In the last decades, traditional chemical testing approaches have relied on whole animal endpoints (e.g., mortality, tumors and birth defects). Recent advances in science have led to predictive testing approaches such as high-throughput screening which evaluates upstream chemical effects, namely those of biological pathways. Over the past decade, the federal government has made significant investment advancing through the Cast Initiatives hope of actually expanding our understanding of chemical toxicity filling significant data gaps.

EDF, in partnership with NIH/NIEHS/EPA, bring together scientists of diverse expertise to discuss opportunities and challenges for applying federal resources to research on neurological disorders and diseases. A detailed commentary published in January's issue of *Environmental Health Perspectives* believes that the scientific research community is critical to the

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further development and advancement of federal health and environmental research programs. The purpose of this meeting is to inform you of the goals of the program. The purpose of this meeting is to inform you of the goals of the program. The purpose of this meeting is to inform you of the goals of the program.

(1) Increase the external research community's familiarity with federal initiatives and associated data and tools to support discussion and collaboration among basic science and government scientists around the use of databases related to research. Please find attached to the email accompanying this invitation a preliminary, condensed meeting agenda.

Identification of undiscovered environmental contributors to neurological diseases and disorders requires extensive research in which data emerging from the Tox21 and ToxCast programs will play a part. We believe you would provide valuable input to the meeting, and hope that you will accept an invitation to participate.

We would appreciate a response to my invitation by January 2015. Please send RSVP to Jennifer McPartland at jennifer.mcpartland@edf.org. For other questions, contact Jennifer McPartland at jennifer.mcpartland@edf.org. Additional meeting details and a final agenda will be shared closer to the meeting date.

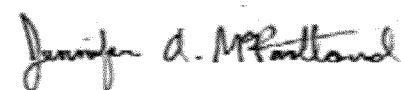
NIEHS/NTP is providing a number of travel awards to support attendance to this meeting. If interested, please visit niehs.nih.gov/go/trvischl to apply. Applications for travel support are due by January 2015. EDF is working to find additional support funding. Interested parties in these funds, please let us know what key milestones additional funds become available.

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Thank you for your consideration forward to hearing from you.

Sincerely,

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Jennifer D. McPartland,

EDF Health Scientist

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Sue Avery

Program Manager

Health Program Director

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